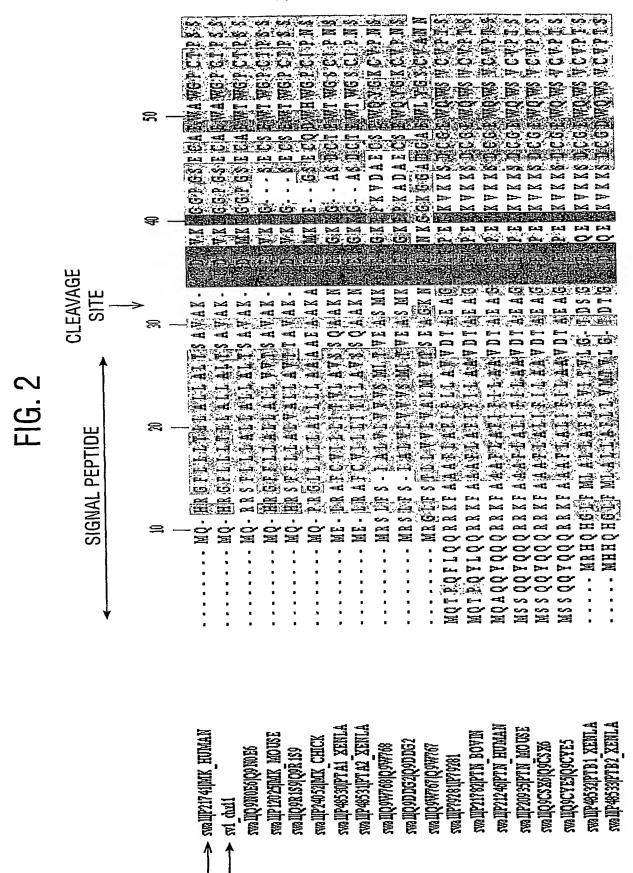
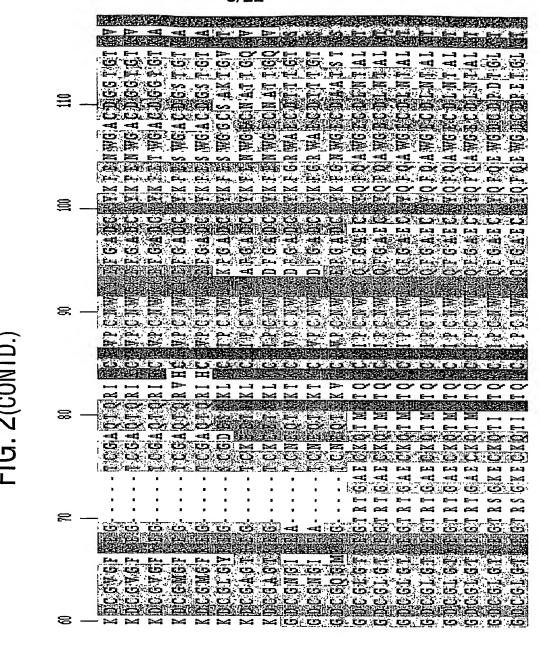
INSP106



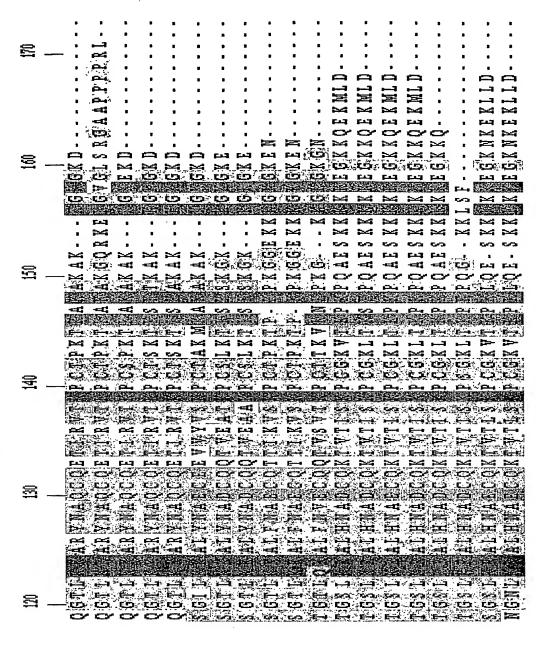
3/22



SYD (ALI I
SYD (ALI I
SYD (ALI I
SYD IQ SHOES (QO NO E6
SYD IQ SHOES (QO NO E6
SYD IQ SHOES SIDEN IS SY
SYD IQ SHOES SIDEN IS SY
SYD IQ SYD SHOES IS SY
SYD IQ SYD DG 2 (QO D DG 2
SYD IQ SYD DG 2 (QO D DG 2
SYD IQ SYD SH P 192 8 I
SYD IQ SYD SH P 10 WA I
SYD IQ SYD SH P 10 WA I
SYD IQ SYD SH P 10 WA I
SYD IQ SYD SH P 11 I WA I
SYD IQ SYD SH P 11 I WA I
SYD IQ SYD SH P 11 I WA I
SYD IQ SYD SH P 11 I SYD I
SYD IQ SYD SH P 12 XEN I A
SYD IQ SYD SH P 12 XEN I A
SYD IQ SYD SH P 12 XEN I A
SYD IQ SYD SH P 12 XEN I A
SYD IQ SYD SH P 12 XEN I A
SYD IQ SYD SH P 12 XEN I A
SYD IQ SYD SH P 12 XEN I A
SYD IQ SYD SH P 12 XEN I A
SYD IQ SYD SH P 12 XEN I A
SYD IQ SYD SH P 12 XEN I A
SYD IQ SYD SH P 12 XEN I A
SYD IQ SYD SH P 12 XEN I A
SYD IQ SYD SH P 12 XEN I A
SYD IQ SYD SH P 12 XEN I A
SYD IQ SYD SH P 12 XEN I A
SYD IQ SYD SH P 12 XEN I A
SYD IQ SYD SH P 12 XEN I A
SYD IQ SYD SH P 12 XEN I A
SYD IQ SYD SH P 12 XEN I A
SYD IQ SYD SH P 12 XEN I A
SYD IQ SYD SH P 12 XEN I A
SYD IQ SYD SH P 12 XEN I A
SYD IQ SYD SH P 12 XEN I A
SYD IQ SYD SH P 12 XEN I A
SYD IQ SYD SH P 12 XEN I A
SYD IQ SYD SH P 12 XEN I A
SYD IQ SYD SH P 12 XEN I A
SYD IQ SYD SH P 12 XEN I A
SYD IQ SYD SH P 12 XEN I A
SYD IQ SYD SH P 12 XEN I A
SYD IQ SYD SH P 12 XEN I A
SYD IQ SYD SH P 12 XEN I A
SYD IQ SYD SH P 12 XEN I A
SYD IQ SYD SH P 12 XEN I A
SYD IQ SYD SH P 12 XEN I A
SYD IQ SYD SH P 12 XEN I A
SYD IQ SYD SH P 12 XEN I A
SYD IQ SYD SH P 12 XEN I A
SYD IQ SYD SH P 12 XEN I A
SYD IQ SYD SH P 12 XEN I A
SYD IQ SYD SH P 12 XEN I A
SYD IQ SYD SH P 12 XEN I A

FIG. 2(contd.)

4/22



*** SYMILP 217 44 JIMK HUMAN

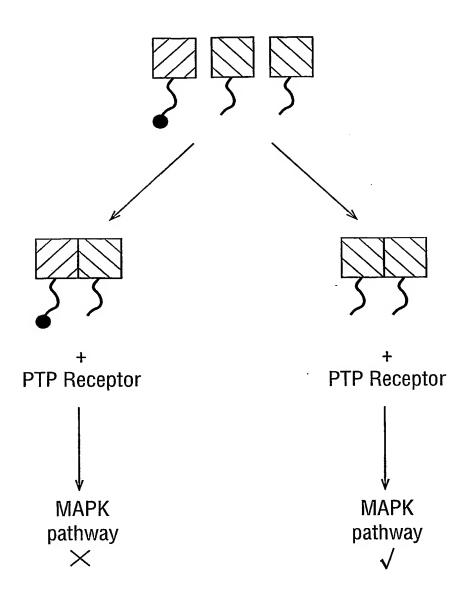
*** SYMIL 1

*** SYMIL 1

*** SYMIL 19 SYMIN SYMIN SYMIL SYMIL 19 SYMIL 19 SYMIL 19 SYMIL 19 SYMIN SYMIL 19 SYMIL SYMIL 19 SYMIL 19 SYMIL SYMIL 19 SYMIL

5/22

FIG. 3



KEY

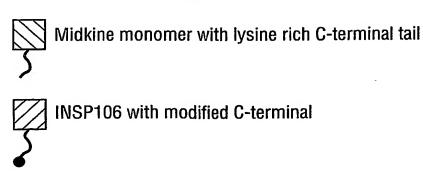


FIG.

	10	20	30	40	50	09
swall	SWAIL MOHRGFLLLTLLALLALTSAVAKKKDKVKKGGPGSECAEWAWGPCTPSSKDCGVGFREGT	LTSAVAKKKD	KVKKGGPGSE	CAEWAWGPCT	PSSKDCGVGFI	REGI
		••				•• {
chr11	MOHRGFLLLTLLALLASAVAKKKDKVKKGGPGSECAEWAWGPCTPSSKDCGVGFREGT	LTSAVAKKKD	KVKKGGPGSE	CAEWAWGPCT	PSSKDCGVGF	KEGI.
•	10	20	30	40	50	09
	70	08	06	100	110	120
swall	RVPC	KKEFGADCKY	KFENWGACDG	GTGTKVRQGT	NWKKEFGADCKYKFENWGACDGGTGTKVRQGTLKKARYNAQCQETI	DETI
		••	••	•••		••
chr11	CGAQTQRIRCRVPCNWKKEFGADCKYKFENWGACDGGTGTKVRQGTLKKARYNAQCQETI	KKEFGADCKY	KFENWGACDG	GTGTKVRQGT	LKKARYNAQC	DETI
I	70	80	06	100	110	120
	130	140				
swall	RVTKPCTPKTKAKAKA-KKGKG-		KD			
		•••	•			
chr11	RVTKPCTPKTKAKAKGQRKEKGVGLSRGAAPPPRL	QRKEKGVGLS	RGAAPPPPRL			
l	130	140	150			

In italics: predicted signal peptide

7/22

FIG. 5

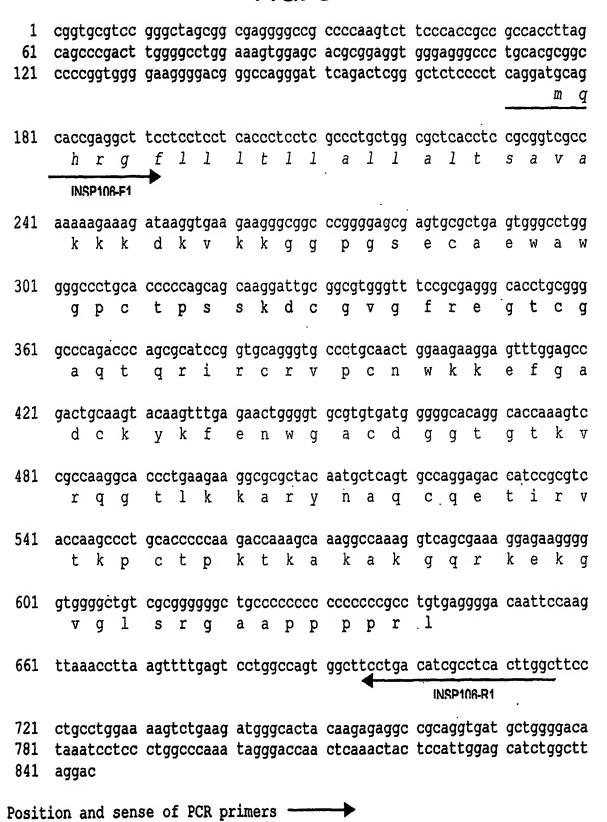
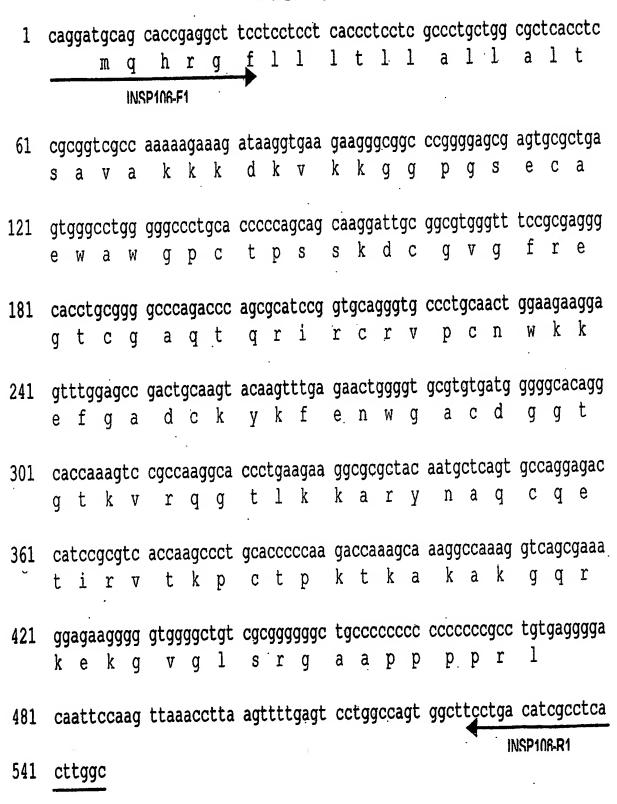


FIG. 6



Position and sense of PCR primers —

FIG. 7

Map of pCR4-TOPO-INSP106

Molecule:		pCR4-TOPO-INSP106, 4		500 bps DNA Circular
Туре	Start	End	Name	Description
MARKER	205		M13R	M13 rev priming site
MARKER	243.		Т3	T3 priming site
MARKER	295		INSP106-CP2	INSP106-CP2 primer site
MARKER	522		INSP106-SP2	INSP106-SP2 sequencing primer site
MARKER	616	C	INSP106-SP1	INSP106-SP1 sequencing primer site
GENE	833	366 C	cds	INSP106 cds
MARKER	837	C	INSP106-CP1	INSP106-CP1 primer site
REGION	837	295 C	Insert	INSP106-CP1/-CP2 PCR product
MARKER	890	C	Т7	T7 priming site
MARKER	898		M13F	M13 for priming site
GENE	1702	2496	Kan	Kanamycin resistance gene ORF
GENE	2700	3560	Amp	Ampicillin resistance gene ORF
REGION	3705	4378	pUC ori	pUC origin

FIG. 7(contd)

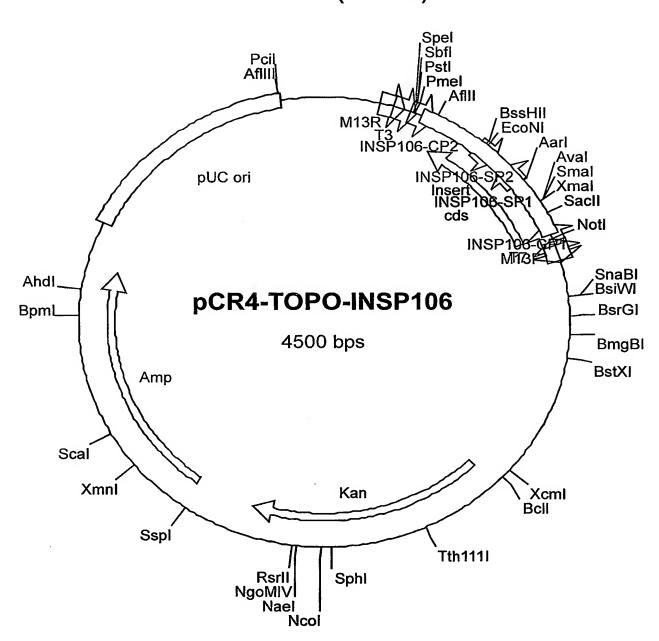


FIG. 8

Map of pDONR 221

Molecule:

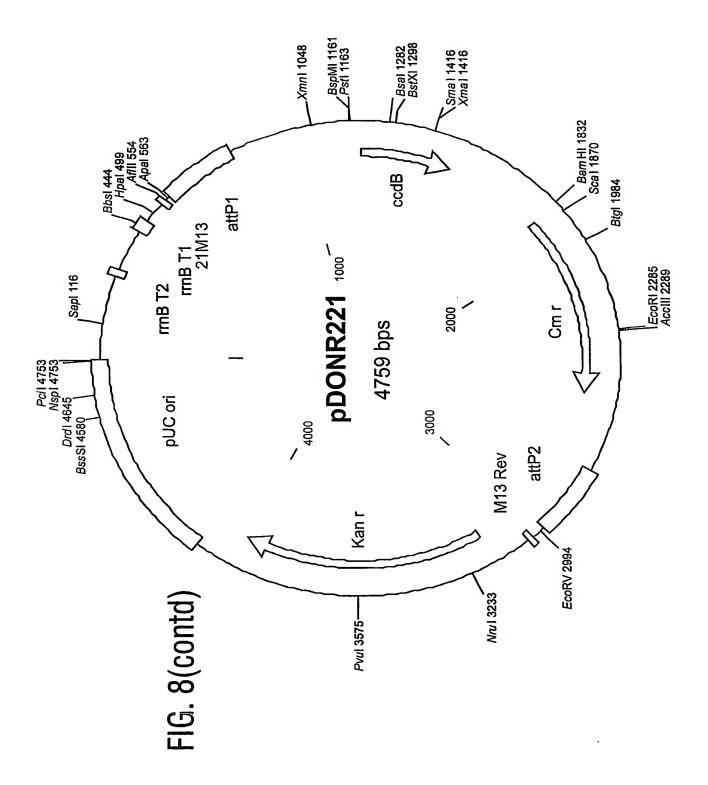
pDONR221, 4759 bps DNA Circular

File Name:

pDONR221.cm5

Description:

Туре	Start	End Name	Description
REGION	295	268 C rrnB T	transcription termination sequence
REGION	470	427 C rrnB T	transcription termination sequence
REGION	536	553 21M13	M13 Forward primer
REGION	570	801 attP1	
GENE	1197	1502 ccdB	
GENE	1844	2503 Cm r	Chloramphenicol resistance gene
REGION.	2751	2982 attP2	
REGION	3040	3023 C M13 Re	v M13 Reverse primer
GENE	3153	3962 Kan r	
REGION	4083	4756 pUC or:	i



PCT/GB2003/005374 WO 2004/052928

13/22

FIG. 9

Map of expression vector pEAK12d

Molecule:

pEAK12 d, 8760 bps DNA Circular pEAK12DEST.cm5

File Name:

Description: Mammalian cell expression vector (plasmid ID 11345)

Molecule Features:

Туре	Start	End	Name	Description
REGION	2	595		pmb-ori
GENE	596	1519	Amp	·
REGION	1690	2795	EF-lalpha	
REGION	2703	2722		position of pEAK12F primer
REGION	2796	2845		MCS
MARKER	2855		attR1	
GENE	3256	3915	CmR	
GENE	4257	4562	ccdB	
MARKER	4603	C	attR2	
REGION	4733	4733		MCS
REGION	4734	5162		poly A/splice
REGION	4819	4848 C	,	position of pEAK12R primer
GENE	5781	5163 C	PUR	PUROMYCIN
REGION	6005	5782 C	: tK	tK promoter
REGION	6500	6006 C	Ori P	
GENE	8552	6500 C	EBNA-1	
REGION	8553	8752	sv40	

14/22

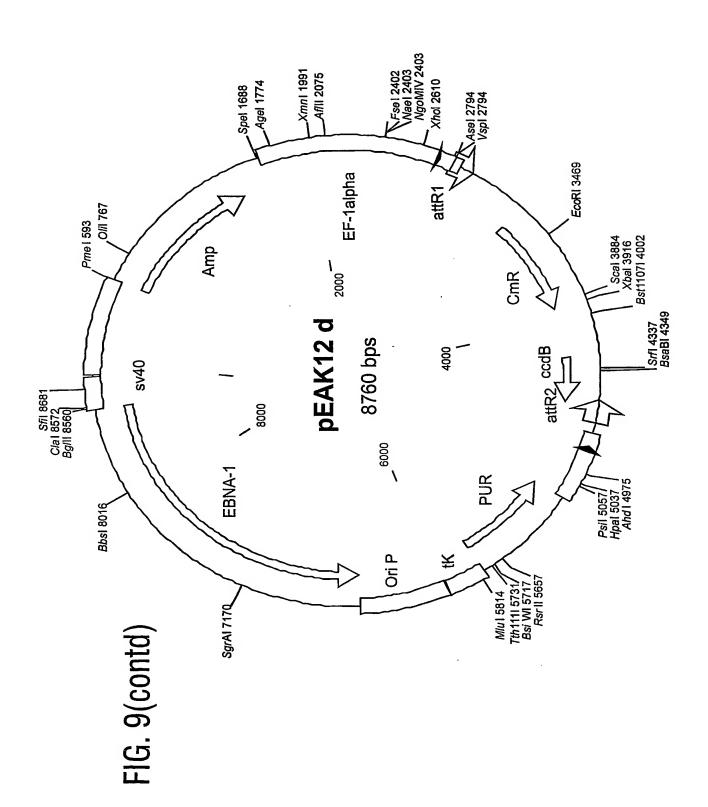


FIG. 10

Map of Expression vector pDEST12.2

Molecule:

pDEST 12.2, 7278 bps DNA Circular

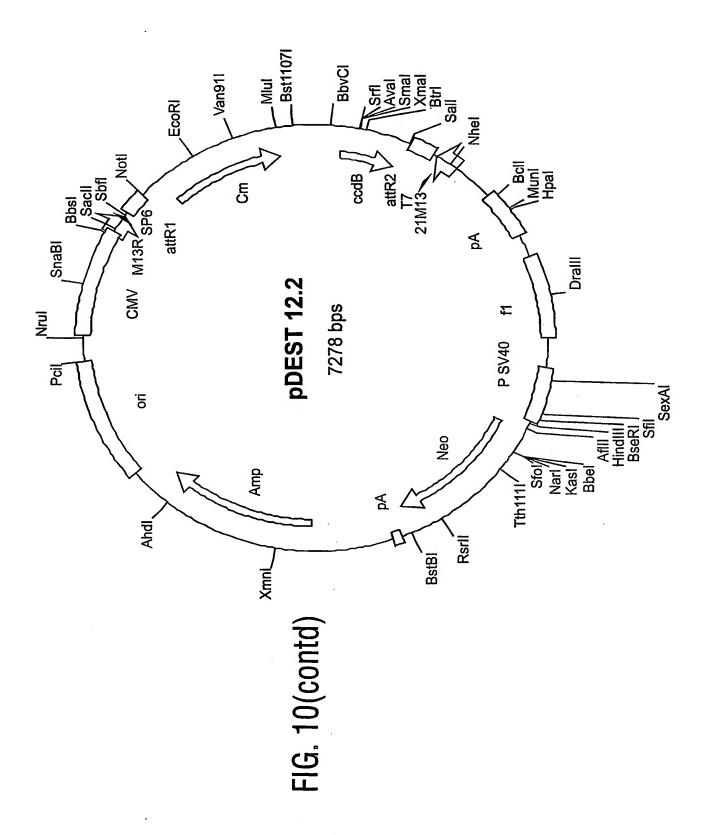
File Name:

pDEST12-2.cm5

Description:

Eukaryoric expression vector

Туре	Start	End	Name	Description
REGION	15	608	CMV	CMV promoter
MARKER	648		M13R	M13R primer
REGION	687	706	SP6	SP6 promoter
REGION	730	854	attR1	
GENE	963	1622	Cm	
GENE	1964	2269	ccdB	
REGION	2310	2434	attR2	
GENE	2484	2464 (г 17	T7 promoter
MARKER	2512	(21M13	21M13 primer
REGION	2784	3050	pΑ	SV40 polyadenylation signal
REGION	3176	3631	f1	f1 intergenic region
REGION	3791	4099	P SV40	SV40 ori & early promoter
GENE	4158	4952	Neo	
REGION	5016	5064	pΑ	synthetic poly adenylation signal
GENE	5475	6335	Amp	
REGION	6480	7153	ori	pUC ori



WO 2004/052928 PCT/GB2003/005374

17/22

FIG. 11

Map of pDONR221-INSP106-6HIS

Molecule	:	pDONR221-INSP106-6HIS-V1, 3042 bps DNA Circular				
Туре	Start	End	Name	Description		
REGION	295	268 C	rrnB T2	transcription termination sequence		
REGION	470	427 C	rrnB T1	transcription termination sequence		
REGION	536	553	21M13	21M13 primer		
REGION	570	651	attL1			
GENE	677	1162	INSP106-6HIS	I-V1		
REGION	1177	1265	attL2			
REGION	1323	1307 C	M13 R	M13R primer		
GENE	1436	2245	Kan r			
GENE	2366	3039	pUC ori			

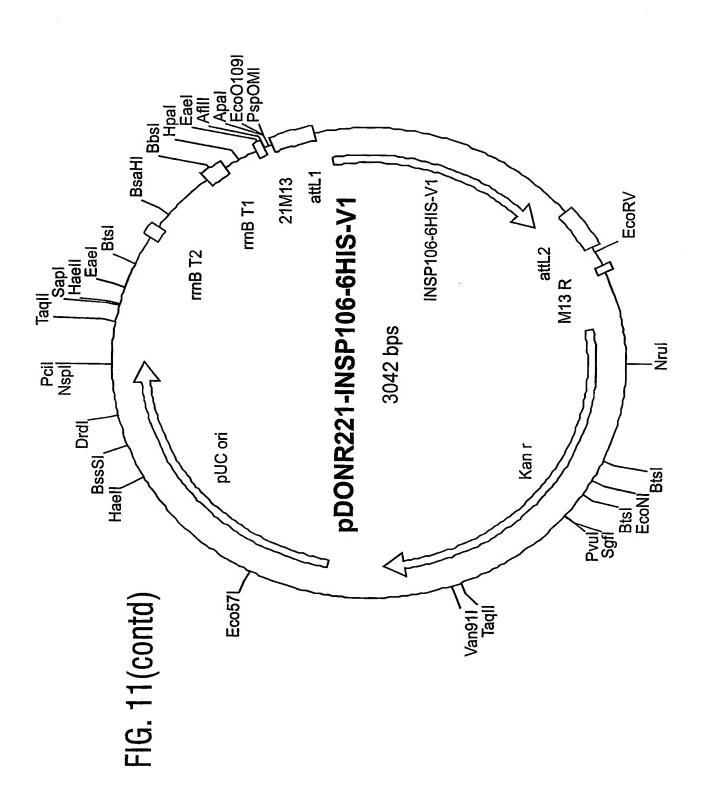


FIG. 12

Map of pEAK12d-INSP106-6HIS

Molecule:		pEAK12d-INSP106-6HIS-V1, 7435			7435	ops	DNA	Circular
Туре	Start	End	Name	Des	cripti	on		
REGION	2	595	pmb-ori	<u>.</u>				
GENE	596	1519	Amp					
REGION	1690	2795	EF-lalp	ha				
REGION	2796	2845	MCS''					
REGION	2855	2874	attB1					
GENE	2888	3373	INSP106	5-6HIS-V1				
REGION	3381	3402	attB2					
REGION	3408	3408	MCS					
REGION	3409	3837	'A	pol	y A/sp	lic	е	
GENE	4456	3838 C	PUR	PUR	OMYCIN			
REGION	4680	4457 C	tK	tK	promot	er		
REGION	5175	4681 C	Ori P					
GENE	7227	5175 C	EBNA-1					
REGION	7228	7427	sv40					

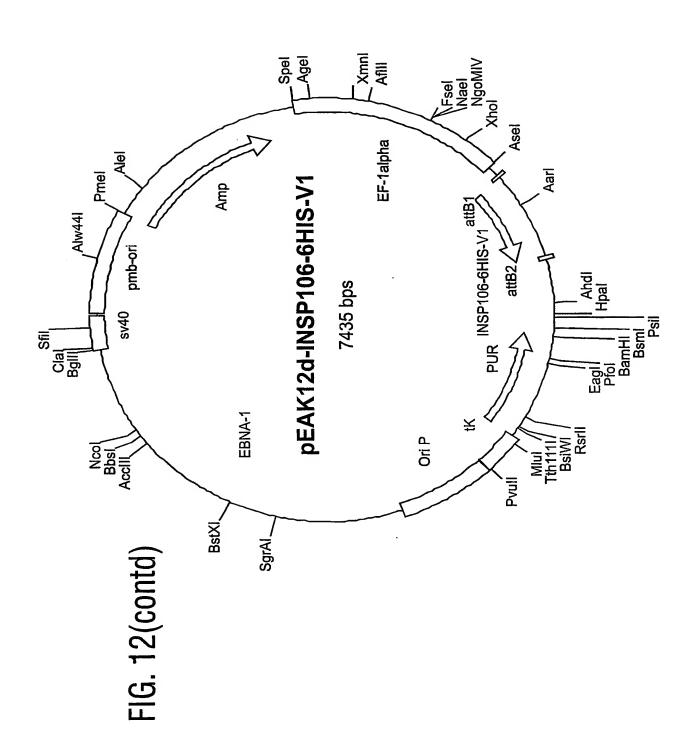


FIG. 13

Map of pDEST12.2-INSP106-6HIS

Molecule:		pDEST12	.2-	INSP106-6HIS	S-V1, 6121 bps DNA Circular
Туре	Start	End	N	ame	Description
GENE	15	537	C	MV promoter	
REGION	648	665	M	13rev	M13R primer
REGION	687	704	S	P6	SP6 primer
REGION	730	762	а	ttB1	
GENE	763	1248 INSP106-6HIS-V1			
REGION	1252	1277	а	ittB2	
REGION	1327	1307	CI	.7	T7 promoter
REGION	1356	1338	C 2	21M13	21M13 primer
GENE	1462	1824	p	ρA	SV40 polyadenylation signal
GENE	2018	2474	f	1	fl intergenic region
GENE	2538	2956	E	SV40	SV40 ori & early promoter
GENE	3001	3795	N	leo	
GENE	3859	3907	ŗ	ρA	poly adenylation signal
GENE	4318	5178	I	Amp	
GENE	5327	5966	(ori	pUC ori

